POCKET RECORDER

POCKETRAK C24/W24

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POCKETRAK C24/W24

24 bit / 96 kHz | CUBASE AI

For details please contact:

YAMAHA

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Superior Sound Quality from the Company that Knows Music Best

With over a century of experience in building fine pianos and other musical instruments, and as a leader in home and professional audio equipment, Yamaha has a deep affinity with music and musicians. Our two new POCKETRAK models, with 24bit/96kHz sound quality and superb operating ease, will give both professional and amateur musicians all the recording capabilities they want and more!

C24 W24

POCKETRAK

24bit/96kHz CUBASE AI

C24

Amazing Combination of Quality and Convenience

Looking for the best way to record your music lessons, practices, band rehearsals? You've found it. The C24 delivers 24bit/96kHz sound quality in the world's smallest size, and is packed with helpful features.

World's smallest and lightest recorder (2oz./57g with battery)*

* With 24bit/96kHz capability. Based on Yamaha data.

24bit/96kHz recording capability

26-hour MP3 recording time

PCM: 7 hours

Attachment Clip included

High capacity 2GB internal memory

24bit/96kHz

CUBASE AI

Great Performance, Great Convenience — Take It Everywhere!

Amazingly Small and Lightweight

This mini recorder will go with you everywhere for recording band rehearsals, music lessons, conferences, meetings and more. Weighing only 2 ounces (57g) with battery and less than one inch (21mm) thick, it fits easily in a pocket or bag, so you're always ready to record.

Clip It Where You Want It

The supplied attachment clip lets you snap the recorder onto a music stand, mic stand or any convenient location. Small and light, it stays where you put it and won't be in the way.

Long-lasting Battery for Extended Recording

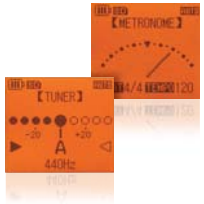
The C24 offers significantly longer recording time than comparable models. A single alkaline AAA battery will power the unit for up to 26 hours in MP3 mode and 7 hours in the higher quality PCM mode.

24bit/96kHz Recording — Better Quality than CD!

Surprisingly, this small pocket recorder offers digital audio recording with 24bit/96kHz resolution, which is higher than CD quality. Thanks to Yamaha technology, small size is not a sacrifice. Naturally, you can also use the MP3 format for longer recording.

Two Great Practice Aids: Tuner and Metronome

The built-in tuner makes pitch adjustments easy and convenient. When using the tuner, the backlight turns on automatically. The metronome is also handy, giving you the desired tempo via both sound and LED. And you can record the music without recording the metronome sound.



High Capacity Memory with microSD Cards

The C24 has a built-in 2GB flash memory, providing 26 hours of MP3 recording time (PCM: 7 hours). Using the supplied 2GB microSD memory card doubles this amount. You can also use higher capacity cards.

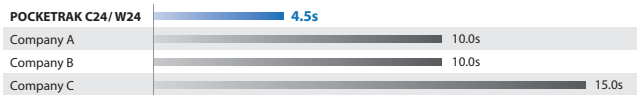
Recording mode	microSD card Max.time		
	2GB	8GB	16GB
Linear PCM (24bit/96kHz)	55m	3h 40m	7h 20m
Linear PCM (16bit/44.1kHz)	3h 00m	12h 00m	24h 00m
Stereo MP3 (320kbps)	13h 30m	54h 00m	108h 00m

The listed recording times are approximate. Actual recording time will depend on the specific microSD memory card used. If multiple audio files are recorded the total recording time will be less than listed above. The maximum size of any single audiofile is 2 GB.

Quick Startup

No more waiting for the recorder. Press the power button and you're ready to record after just 4.5 seconds.

Time from power-on to recording ready



When using bundled microSD card

Onboard Speaker

Even with its slim body, the C24 includes a speaker so you can check your recording on the spot or listen later at your leisure.

High Quality Nondirectional Stereo Microphone

With a large mic built into its compact body, the C24 records sound with excellent clarity. The mic is nondirectional, so you can record over a wide area without having to point it at each sound source. This makes it easy to record large groups like brass bands or choirs.

Direct USB Connection

Slide out the USB connector and the C24 connects directly to a USB port. USB 2.0 compatibility means that an hour of recorded sound can be transferred in 10 seconds. Transfer recordings to your computer and email them right after they've been recorded. And because the C24 comes bundled with Cubase AI5 software, you have extensive editing and production capabilities. See pages 16 and 17 for CUBASE AI.

Peak Limiter for Optimum Music Recording

Peak limiter prevents overload and distortion on high-level sounds.

Other Features

- 5-band equalizer lets you tailor the playback sound for optimum response.
- High-pass filter automatically reduces wind noise and low frequency rumble.
- Auto Level Control ensures best speech recording quality.
- Recycle Bin folder makes it possible to retrieve deleted files.

Supplied Accessories

Attachment clip

Alkaline AAA battery

(Actual size) W37.6 × H113.0 × D21.1mm

W24

Large Stereo Mic and Ultra-handy Wireless Remote Control

Compact and lightweight, the W24 features a large dual microphone assembly for outstanding stereo sound quality. What's more, recording is more convenient than ever thanks to the supplied wireless remote control. It's the perfect choice for effortless recording in the studio, on the stage or out in the field.

Extremely sensitive, top quality X-Y mic

24bit/96kHz recording capability

Pocket size, weighs only 92 grams

Wireless Remote Control included

24 bit / 96 kHz

CUBASE AI

High quality peak limiter built in

38-hour PCM recording time

MP3: 56 hours

Designed for Maximum Performance and Convenience

Start, Stop and Replay from Anywhere

The wireless remote control makes recording practice sessions much more convenient. You can position the W24 at the optimum recording location and operate it from your playing position, so you can record and listen over and over without having to move.

38 Hours of PCM Recording with One Battery

The W24 far outdistances the competition with up to 38 hours of PCM recording and 56 hours of MP3 recording from a single alkaline AA battery. Now you can concentrate on the music, not the battery.

High Capacity Memory with microSD Cards

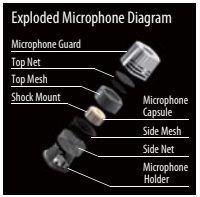
The W24 has a built-in 2GB flash memory, providing 3 hours of PCM recording time (MP3: 13.5 hours). Using the supplied 2GB microSD memory card doubles this amount. You can also use higher capacity cards.

Recording mode	microSD card Max.time		
	2GB	8GB	16GB
Linear PCM (24bit/96kHz)	55m	3h 40m	7h 20m
Linear PCM (16bit/44.1kHz)	3h 00m	12h 00m	24h 00m
Stereo MP3 (320kbps)	13h 30m	54h 00m	108h 00m

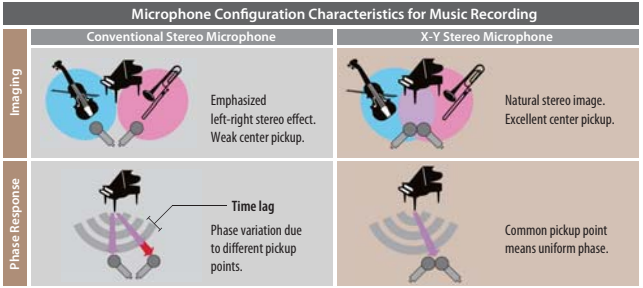
The listed recording times are approximate. Actual recording time will depend on the specific microSD memory card used. If multiple audio files are recorded the total recording time will be less than listed above. The maximum size of any single audiofile is 2 GB.

Highest Quality X-Y Stereo Microphone

The microphone on a pocket recorder is extremely important in determining sound quality, and the sensitivity and coverage of this X-Y dual mic assembly are truly superior. It takes full advantage of the recorder's 24bit/96kHz resolution.



X-Y Configuration Provides Superior Music Recording


Microphone Configuration Characteristics for Music Recording
Conventional Stereo Microphone
X-Y Stereo Microphone
Imaging
Emphasized left-right stereo effect. Weak center pickup.
Natural stereo image. Excellent center pickup.
Phase Response
Time lag
Phase variation due to different pickup points.
Common pickup point means uniform phase.

Peak Limiter for Optimum Music Recording

When bands or orchestras hit high volume peaks, recording quality can suffer. The W24's peak limiter instantly detects these high levels to prevent overload and distortion. Yamaha worked with musicians in studios to ensure that the limiter function is optimized for music recording.

Memorize Various Recording Settings

You can use the Scene function to memorize the settings for a variety of recording situations, such as choir practice or interviews, and assign names to them. Then each time you want to use a certain setting, you can recall it instantly.

Onboard Speaker

The built-in speaker provides a quick and convenient way to check your recordings.

Ready When You Are

When the group is ready to start, no one wants to wait for the recorder. With the W24, recording can begin just 4.5 seconds after pressing the power button.

Tuner and Metronome

Tuner and metronome are built-in for added convenience.

Other Features

- 5-band equalizer lets you tailor the playback sound for optimum response.
- High-pass filter automatically reduces wind noise and low frequency rumble.
- Auto Level Control ensures best speech recording quality.
- Recycle Bin folder makes it possible to retrieve deleted files.

Cubase AI5 Audio Workstation Software Supplied

The W24 comes bundled with Cubase AI5 software tools that give you extensive editing and production capabilities. See pages 16 and 17 for a full explanation.

CUBASE AI

Supplied Accessories

Wireless remote control

Alkaline AA battery

USB Cable

Windscreen

Microphone stand adaptor

(Actual size) W46.5 × H129.5 × D17.5mm

CUBASE AI

Cubase AI5 software greatly expands your recording and editing capabilities.

Cut out what you don't want, adjust the sound the way you want it. Using Cubase AI5 software, it's easy to edit POCKETRAK recordings on your PC or Mac. You can also transfer files to CD or MP3 for handy distribution.

Record Practices!

Record a brass band rehearsal easily and with high sound quality.

The C24's non-directional microphone is ideal for capturing the full sound field at band practices.

Record Performances!

Record your band's performances with the actual "live" feeling.

The W24's high-performance X-Y directional microphone preserves the depth and positions of the entire group.

Upload to your PC and edit with Cubase.

Both the W24 and C24 let you easily upload recordings to your PC via USB, for comprehensive editing with Cubase software. Previous editing with Cubase can also be retained, allowing you to refine the process as many times as necessary.

Cut unnecessary data and partition songs.

You can cut out the space between songs at live performances or tuning at practice, allowing data to be split into songs. And you can add effects such as fade in and out .

Remove parts with no sound.

Perform extensive sound adjustments.

The equalizer lets you fine-tune the sound quality, and a variety of effects enable you to eliminate distortion, add echo and perform other modifications.

Use the equalizer to adjust the sound.

Export files onto CD or MP3.

After editing is complete, you can export the data as a WAV file. Other software can be used to copy the files onto CD or convert them to MP3 format.

MP3

Review rehearsals to help you improve.

Uploading an MP3 file to your blog or attaching it to an e-mail allows all the members to hear it. Everyone can study the recording to improve their performances.

Create a CD with high sound quality!

All the good memories of a live performance come back with a high quality CD. Let the other band members and all your friends enjoy it.

- Cubase 5 Audio Engine.
- 48 audio tracks and up to 64 MIDI tracks.
- Includes 31 audio effects such as reverb and compressor.
- Includes 20 MIDI music styles and 480 audio drum loops.
- Features the new Project Assistant/Track Preset functions for easy setting adjustment.
- Guitar amp simulator provides speaker simulation.

Win / MacOSX

Supported OS: Windows Vista/XP/7, MacOS 10.5 and later
(Windows 7 and MacOS 10.6 require software update).

An internet connection is required for downloading update files, user registration and license verification.

For details, see http://www.steinberg.net/en/products/steinberg_yamaha/cubaseai5.html

C24

POCKETRAK C24 Specifications

Hardware			
Body	Dimensions (W x H x D)	1 1/2 inch (37.6 mm) x 4 1/2 inch (113.0 mm) x 7/8 inch (21.1 mm)	
	Weight	2.0 oz (57 g) including battery	
Memory	Capacity	2 GB (External memory: microSD/microSDHC)	
Battery	Available Battery	AAA alkaline battery x 1	
Recording Battery Life	AAA Alkaline	MP3: 26 h, PCM: 16 h	
Playback Battery Life	AAA Alkaline	MP3: 34 h, PCM: 18 h (Earphone)	
LCD	LCD Type	Dot matrix, backlit display	
	Language	English	
Others		Internal Stereo Microphone, Internal Speaker, Headphone Jack (Stereo mini: ø3.5mm x 1), Ext. Stereo Mic In Jack (Stereo mini: ø3.5mm, Line In Jack switchable x 1), microSD card slot x 1	

Recording		
Recording Format	Linear PCM, MP3	
Recording Configuration	Internal Stereo Microphone, Ext. Stereo Mic In, Line In (Automatic song divide available)	
Recording Time (using 2GB microSD)/ Frequency Response/ Sampling Frequency/ Bit Rate	**PCM stereo (96 kHz)**	55m, 24 bit
	PCM stereo (44.1 kHz)	3h 00m, 16 bit
	MP3 stereo (320 kbps)	13h 30m
	MP3 stereo (128 kbps)	34h 00m
	MP3 stereo (64 kbps)	68h 00m
Other Functions	Voice Automatic Recording System, ALC (AutoLevel Control) ON/OFF, Mic Sensitivity Select (ALC ON: 2 steps, ALC OFF: 80 steps), Recording Peak Limiter, 5-band Grafic Equalizer (8 presets/User), High Pass Filter, Timer rec, Self Timer, Rec monitor, File delete confirmation	

Playback	
Playback Format	MP3, WMA, WAV (WAV file playback is own recording file only)
Repeat	ONE, ALL, Random, A-B repeat
Musical Function	5-band EQ (Presets: Flat, Bass1, Bass2, Pop, Rock, Jazz, User)
Playback Speed (Not available on PCM)	Slow PB (50 - 100 %), Normal (100 %), Fast PB (100 - 200 %)
Other Functions	Play list Playback, Skip Search, File edit (divide, fade in/ out), Tuner, Metronome

Computer connection		
Data Transfer	Connection	USB direct (slide connector)
	Transfer Speed	USB 2.0 High Speed, 1500 kbps
Connection	Mass Storage Class	yes

Accessories
Alkaline AAA battery, Attachment clip, Cubase AI5 DVD-ROM, Owner's Manual

• Continuous recording time will depend on the type of battery used as well as the battery's manufacturer, the conditions under which the battery is being used, and the condition under which it has been stored. Proper operation cannot be guaranteed when a battery other than the supplied eneloop battery or an alkaline battery from a reliable manufacturer is used.

System Requirements

Computer	Windows®-based computer with built-in USB interface Macintosh® computer with built-in USB interface
OS	Windows® 7 / Windows® Vista / Windows® XP / Mac OS X Version 10.5 / 10.6

• Windows® 7 and MacOS 10.6 require software update. An internet connection is required for downloading update files,user registration and license verification.
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W24

POCKETRAK W24 Specifications

Hardware			
Body	Dimensions (W x H x D)	1 13/16 inch (46.5 mm) x 5 1/16 inch (129.5 mm) x 11/16 inch (17.5 mm)	
	Weight	3.25 oz (92 g) including battery	
Memory	Capacity	2 GB (External memory: microSD/microSDHC)	
Battery	Available Battery	AA alkaline battery x 1	
Recording Battery Life	AA Alkaline	MP3: 56 h, PCM: 38 h	
Playback Battery Life	AA Alkaline	MP3: 70 h, PCM: 45 h (Earphone)	
LCD	LCD Type	Dot matrix, backlit display	
	Language	English	
Others		Internal Stereo Microphone, Internal Speaker, Headphone Jack (Stereo mini: ø3.5mm x 1), Ext. Stereo Mic In Jack (Stereo mini: ø3.5mm, Line In Jack switchable x 1), microSD card slot x 1	

Recording		
Recording Format	Linear PCM, MP3	
Recording Configuration	Internal Stereo Microphone, Ext. Stereo Mic In, Line In (Automatic song divide available)	
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	MP3 stereo (320 kbps)	13h 30m
	MP3 stereo (128 kbps)	34h 00m
	MP3 stereo (64 kbps)	68h 00m
Other Functions	Voice Automatic Recording System, ALC (AutoLevel Control) ON/OFF, Mic Sensitivity Select (ALC ON: 2 steps, ALC OFF: 80 steps), Recording Peak Limiter, 5-band Grafic Equalizer (8 presets/User), High Pass Filter, Timer rec, Self Timer, Rec monitor, File delete confirmation, Scene Memory	

Playback	
Playback Format	MP3, WMA, WAV (WAV file playback is own recording file only)
Repeat	ONE, ALL, Random, A-B repeat
Musical Function	5-band EQ (Presets: Flat, Bass1, Bass2, Pop, Rock, Jazz, User)
Playback Speed (Not available on PCM)	Slow PB (50 - 100 %), Normal (100 %), Fast PB (100 - 200 %)
Other Functions	Play list Playback, Skip Search, File edit (divide, fade in/ out), Tuner, Metronome

Computer connection		
Data Transfer	Connection	USB cable (Bundled)
	Transfer Speed	USB 2.0 High Speed, 1500 kbps
Connection	Mass Storage Class	yes

Accessories
Alkaline AA battery, Wireless remote controller, Windscreen, Microphone stand adaptor, USB cable, Cubase AI5 DVD-ROM, Owner's Manual

• Continuous recording time will depend on the type of battery used as well as the battery's manufacturer, the conditions under which the battery is being used, and the condition under which it has been stored. Proper operation cannot be guaranteed when a battery other than the supplied eneloop battery or an alkaline battery from a reliable manufacturer is used.

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OS	Windows® 7 / Windows® Vista / Windows® XP / Mac OS X Version 10.5 / 10.6

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